CS 1520 Midterm Review
Midterm Review

• **Structure**
  – Short answers
  – T/F and fill in the blanks
  – Code tracing
  – Code writing
    • Will be asked to write a simple web server app
    • Review PHP code examples
Midterm Review

• Please brush up on basic HTML (at least to the extent covered in class)

• PHP differences with Java
  – PHP has “copy mode” and “interpret mode”
  – Special semantics of single-quoted / double-quoted strings
  – Dynamically typed language
    • What does this mean? What are the implications?
    • Why do you need “==” and “===” operators?
Midterm Review

• PHP differences with Java (cont’d)
  – Semantics and implementation of PHP arrays
    • Hash semantics
    • Direct access / sequential access semantics
    • Internal implementation
  – Passing by reference / passing by value
    • What are the classes of values in PHP?
  – Scoping rules (local, global, and static)
Midterm Review

• PHP differences with Java (cont’d)
  – OOP
    • The "$this" variable
    • Magic methods
    • Serialization
  – Regular expressions
    • Character classes
    • Matching sequences
    • Anchors
    • Subpatterns
    • Greedy vs. Lazy matching
Midterm Review

• PHP facilities for web programming
  – Getting input from web client (GET / POST)
    • In what form data is passed inside HTTP request
    • What situations one should be used over the other
    • How to access input from PHP script
  – File I/O
    • Can use low level fread/fwrite but also file(…)
    • Use of flock to synchronize accesses to files
Midterm Review

• PHP facilities for web programming (cont’d)
  – HTTP is a stateless protocol
    • No state transferred between each page load
  – Maintaining state using cookies and sessions
    • Where cookies / sessions are stored
    • How they are communicated between web server and web client to maintain state between page loads
    • Structure of web server HTTP response message and how it affects usage